

NC Department of Commerce Division of Workforce Solutions

**Committee on Career and Technical Education
October 23, 2012**

T H R I V E

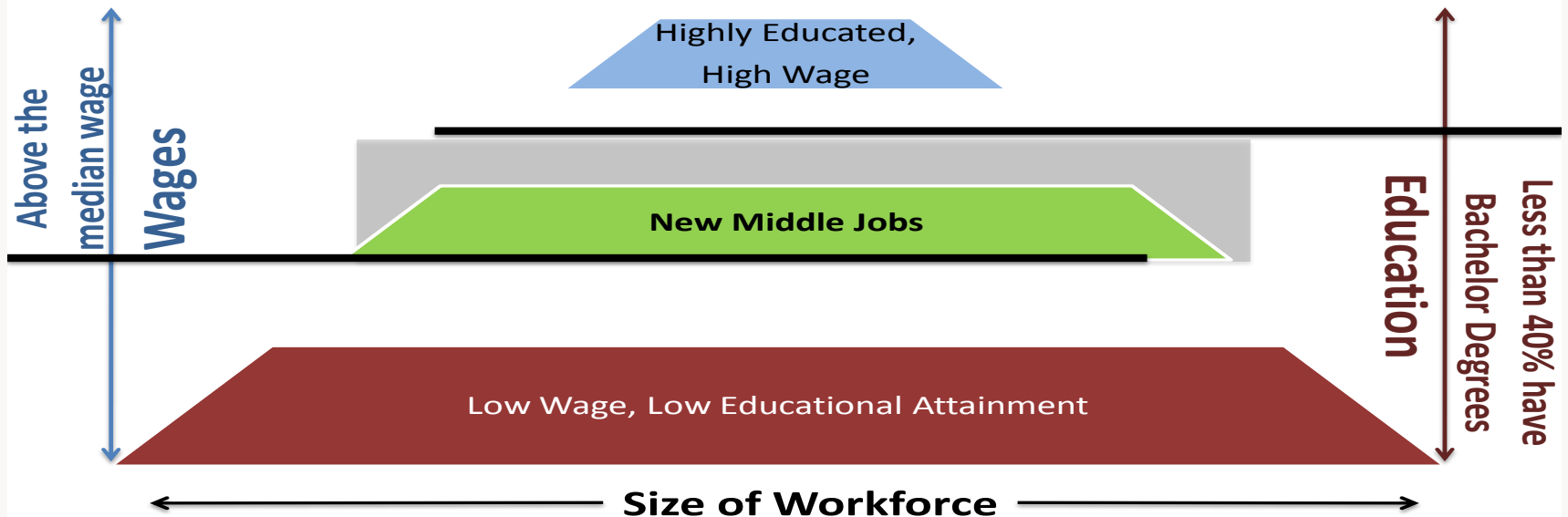
in **NORTH
CAROLINA**

Workforce Challenges

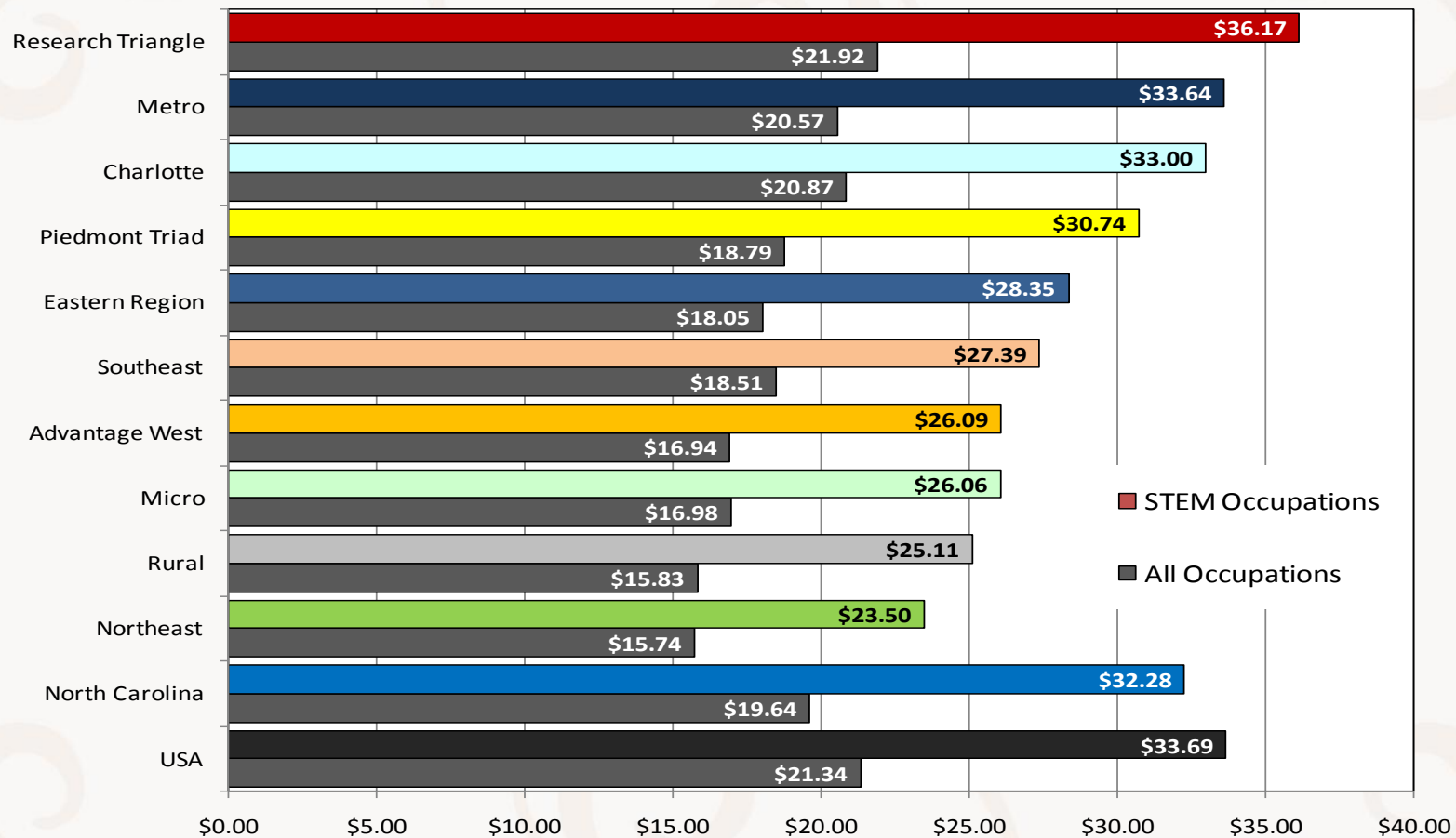
- NC's traditional industries were located in communities with large available low skill labor for low skill middle class jobs.
- Between 2001-2011 the state shed 380,000 jobs. 75% were concentrated in industries with above living income standard wages.
- The states manufacturing sector shrank by more than 38%. These same industries must change to survive. Their workers are at the greatest risk.
- The net job declines were concentrated in distribution and trade; construction; manufacturing; and professional and business services.

Defining Middle Jobs

LIVABILITY + ACCESSIBILITY = MIDDLE JOB



Wages in STEM occupations relative to average wages of all occupations



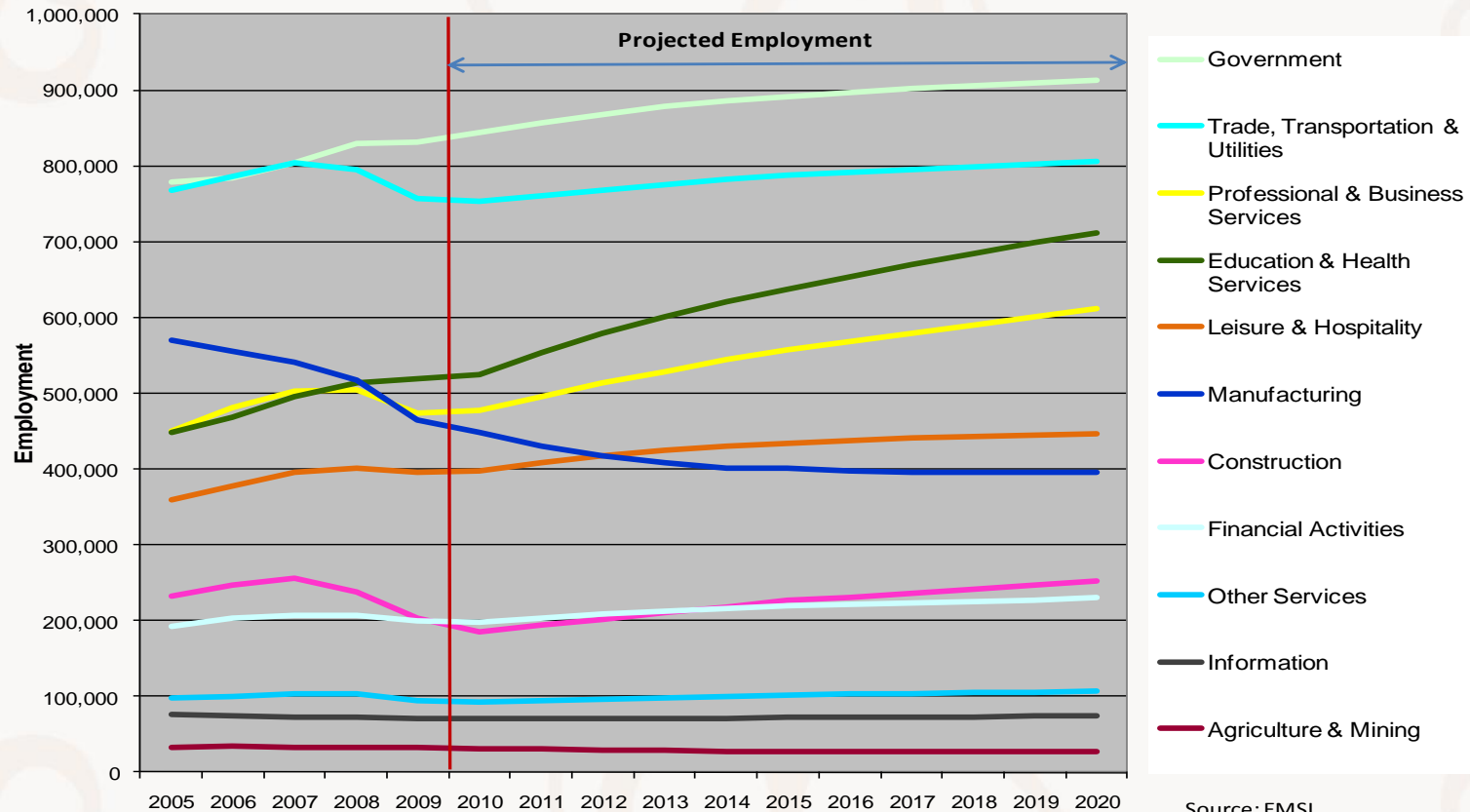
Source: EMSI, BLS STEM Definition, CREC estimates

North Carolina employment and wages by education band

Educational Band	Emp 2010	Net New Jobs (10-20)	Annual Growth Rate (10-20)	Average Wages 2010	% Total Emp (2010)	% New Jobs (10-20)
Advanced Degree	150,103	38,494	2.3%	\$99,634	3.7%	6.9%
4-year College Degree	615,400	111,523	1.7%	\$73,909	15.3%	20.1%
Tech Degree-Some Post	353,273	81,105	2.1%	\$43,771	8.8%	14.6%
High School with Some Exp.	667,049	59,980	0.9%	\$42,677	16.6%	10.8%
High School Degree	793,478	94,882	1.1%	\$33,615	19.7%	17.1%
Below High School	1,442,115	169,167	1.1%	\$22,774	35.9%	30.5%
Total	4,021,418	555,151	1.3%	\$39,838	100.0%	100.0%

Source: Economic Modeling Specialists, Inc.

North Carolina employment by sector



Source: EMSI

Targeted Industry Clusters in North Carolina's Regional Partnerships

Piedmont Triad Partnership

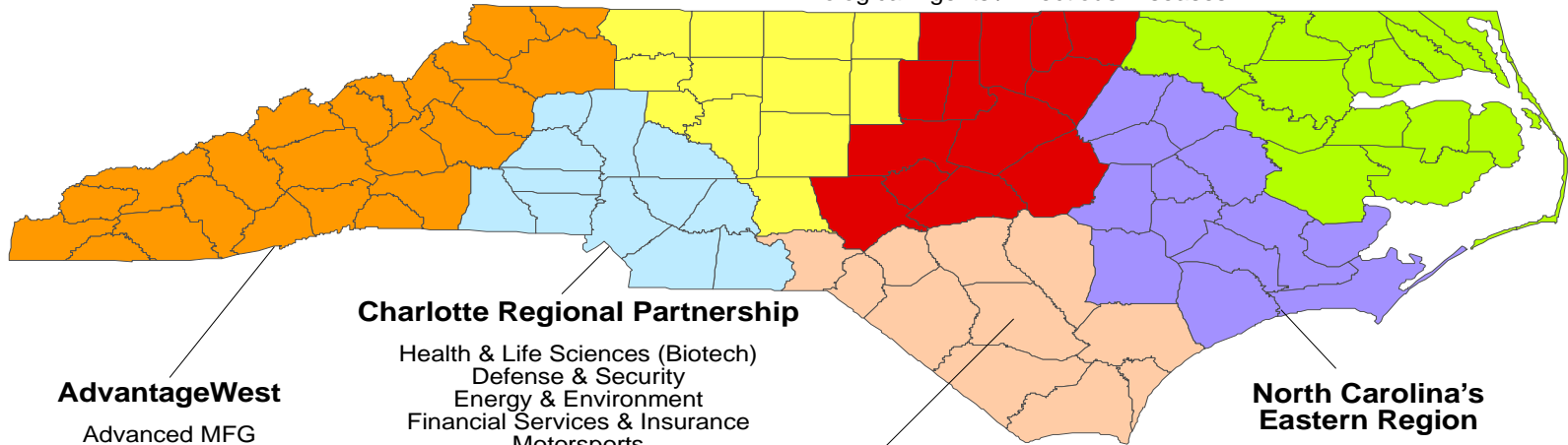
Aviation & Aerospace
Automotive
Plastics
Data Centers
Healthcare (incl. Biotech)
Logistics & Distribution
Finance & Insurance
Arts & Tourism
Food processing
Furnishings

Research Triangle Regional Partnership

Pharmaceuticals
Informatics
Agricultural Biotechnology
Pervasive Computing
Advanced Medical Care
Analytical Instrumentation
Nanoscale Technologies
Clean/Green Technology
Defense Technologies
Interactive gaming and E-learning
Biological Agents / Infectious Diseases

North Carolina's Northeast Commission

Agricultural Biotechnology
Automotive
Aviation/Aerospace
Marine
Renewable Energy
Basic Health Services



AdvantageWest

Advanced MFG
Entrepreneurial Development
Green Economy
Agribusiness
Film

Charlotte Regional Partnership

Health & Life Sciences (Biotech)
Defense & Security
Energy & Environment
Financial Services & Insurance
Motorsports

North Carolina's Southeast Commission

Distribution & Logistics
Military Contractors
Biotechnology
Alternative Energy
Boat Building
Building Products
Agribusiness & Food Processing
Metal Working

North Carolina's Eastern Region

Marine Trades
Defense/Aerospace
Value-added Agriculture
Life Sciences
Advanced Manufacturing
Tourism

Center for Regional Economic Competitiveness

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Key Targets

- Aviation and aerospace
- Distribution and logistics
- Food manufacturing
- Life sciences and biotechnology
- Energy and the green economy

Considerations

- The state will need to continuously grow its pool of skilled workers.
 - In all industries and occupations
- Growing the talent pool will require:
 - Continued in-migration
 - A growing homegrown talent pool

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THRIVE
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